

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A digital camera that creates an image signal through catching a subject light, the digital camera comprising:

an image taking lens, which is variable in a focal length, comprising three ~~groups~~ lenses of a first lens-~~group~~, a second lens-~~group~~, and a third lens-~~group~~ in the named order with respect to an optical axis direction;

a lens barrel that incorporates therein the image taking lens, having in front an aperture through which the image taking lens appears and having in rear an internal space defined by a wall, the lens barrel being free in extension and collapse and performing a focal length control; and

a solid state imaging device that receives the subject light formed by the image taking lens to create the image signal, the solid state imaging device being supported by the wall, wherein the lens barrel has:

a second lens-~~group~~ advancing and saving mechanism in which at the time of the collapse of the lens barrel, the second lens-~~group~~ is saved to a second lens ~~group~~-saving position out of an optical axis of the image taking lens, and at the time of the extension of the lens barrel, the second lens ~~group~~-is advanced onto the optical axis of the image taking lens; and

a third lens ~~group~~-advancing and saving mechanism in which at the time of the collapse of the lens barrel, the third lens ~~group~~-is saved to a third lens ~~group~~-saving position out of the

optical axis of the image taking lens, and at the time of the extension of the lens barrel, the third lens ~~group~~ is advanced onto the optical axis of the image taking lens.

2. (currently amended): A digital camera according to claim 1, wherein the digital camera further comprises a focusing mechanism wherein a focusing is performed by a movement of the third lens ~~group~~ in the optical axis direction.

3. (currently amended): A digital camera according to claim 1, wherein the lens barrel has:

a second lens ~~group~~ guide frame that moves in the optical axis direction in accordance with the extension, the collapse and the focal length control so as to determine a position related to the optical axis direction of the second lens ~~group~~; and a second lens ~~group~~ holding frame that holds the second lens ~~group~~ and is pivotally supported by the second lens ~~group~~ guide frame, the second lens ~~group~~ holding frame causing the second lens ~~group~~ to revolve on the optical axis of the image taking lens at the time of the extension, and the second lens ~~group~~ holding frame causing the second lens ~~group~~ to revolve on the second lens ~~group~~ saving position at the time of the collapse, and

wherein the lens barrel has:

a third lens ~~group~~ guide frame that moves in the optical axis direction in accordance with the extension, the collapse and the focusing so as to determine a position related to the optical axis direction of the third lens ~~group~~; and a third lens ~~group~~ holding frame that holds the third lens ~~group~~ and is pivotally supported by the third lens ~~group~~ guide frame, the third lens ~~group~~ holding frame causing the third lens ~~group~~ to revolve on the optical axis of the image taking lens at the time of the extension, and the third lens ~~group~~ holding frame causing the third lens ~~group~~ to revolve onto the third lens ~~group~~ saving position at the time of the collapse.

4. (currently amended): A digital camera according to claim 3, wherein the second lens ~~group~~-holding frame is enabled in a direction that the second lens ~~group~~-is revolved on the optical axis of the image taking lens,

the wall has a revolving affecting section having a geometry projecting into the internal space, the revolving affecting section being in contact with the second lens ~~group~~-holding frame at the time of the collapse to affect revolving of the second lens ~~group~~-holding frame, and

the second lens ~~group~~-holding frame has an affect receiving section that is pushed by the revolving affecting section at the time of the collapse so that the second lens ~~group~~-revolves into the second lens ~~group~~-saving position.

5. (currently amended): A digital camera according to claim 4, wherein the second lens ~~group~~-holding frame causes the second lens ~~group~~-to advance onto the optical axis of the image taking lens by affect of the enabling, at the time of the extension, in such a manner that the affect receiving section is separated from the revolving affecting section.

6. (currently amended): A digital camera according to claim 4, wherein the revolving affecting section has a taper on the top, and

the affect receiving section causes the second lens ~~group~~-to be saved from the optical axis of the image taking lens to the second lens ~~group~~-saving position through revolving by means of pushing by the taper of the revolving affecting section, at the time of the collapse.

7. (currently amended): A digital camera according to claim 3, wherein the third lens ~~group~~-holding frame is enabled in a direction that the third lens ~~group~~-is revolved on the optical axis of the image taking lens,

the wall has a revolving affecting section having a geometry projecting into the internal space, the revolving affecting section being in contact with the third lens ~~group~~-holding frame at the time of the collapse to affect revolving of the third lens ~~group~~-holding frame, and

the third lens ~~group~~-holding frame has an affect receiving section that is pushed by the revolving affecting section at the time of the collapse so that the third lens ~~group~~-revolves into the third lens ~~group~~-saving position.

8. (currently amended): A digital camera according to claim 7, wherein the third lens ~~group~~-holding frame causes the third lens ~~group~~ to advance onto the optical axis of the image taking lens by affect of the enabling, at the time of the extension, in such a manner that the affect receiving section is separated from the revolving affecting section.

9. (original): A digital camera according to claim 7, wherein the affect receiving section is an object shaped as a plate moving to the wall side while rotating around the periphery of the revolving affecting section through pushing by the revolving affecting section, at the time of the collapse, the object shaped as a plate being inclined with respect to the optical axis.

10. (currently amended): A digital camera according to claim 7, wherein the revolving affecting section has a taper on the top, and

the affect receiving section causes the third lens ~~group~~ to be saved from the optical axis of the image taking lens to the third lens ~~group~~-saving position through revolving by means of pushing by the taper of the revolving affecting section, at the time of the collapse.

11. (currently amended): A digital camera according to claim 3, wherein the solid state imaging device being disposed at a position projecting from the wall to the internal space and being supported by the wall, and

the second lens ~~group~~-holding frame and the third lens ~~group~~-holding frame cause the second lens ~~group~~ and the third lens ~~group~~ to revolve onto the second lens ~~group~~-saving position set up to a hollow portion divided by the solid state imaging device and the wall beside the solid state imaging device and the third lens ~~group~~-saving position, respectively, at the time of the collapse.

12. (withdrawn): A digital camera according to claim 3, wherein the second lens group holding frame and the third lens group holding frame cause the second lens group and the third lens group to revolve onto the second lens group saving position and the third lens group saving position set up to positions beside the first lens group, respectively, at the time of the collapse, wherein there is defined a plane vertical to the optical axis, which crosses, at the time of the collapse, the first lens group, the second lens group and the third lens group.

13. (currently amended): A digital camera according to claim 3, wherein the second lens ~~group~~-holding frame and the third lens ~~group~~-holding frame have their centers of rotatable movement with respect to the second lens ~~group~~-guide frame and the third lens ~~group~~-guide frame at mutually opposite positions with respect to the optical axis.

14. (withdrawn): A digital camera according to claim 1, wherein the digital camera further comprises a light quantity control member that moves in one united body together with the second lens group in the optical axis direction of the image taking lens stored in the lens barrel to control a light quantity of the subject light passing through the image taking lens, and

the second lens group advancing and saving mechanism provides such a performance that at the time of the collapse of the lens barrel, the light quantity control member is saved in one united body together with the second lens group to the rear elements saving position, and at the

time of the extension of the lens barrel, the light quantity control member is advanced in one united body together with the second lens group onto the optical axis of the image taking lens.

15. (withdrawn): A digital camera according to claim 1, wherein the digital camera further comprises a light quantity control member that moves in one united body together with the third lens group in the optical axis direction of the image taking lens stored in the lens barrel to control a light quantity of the subject light passing through the image taking lens, and

the third lens group advancing and saving mechanism provides such a performance that at the time of the collapse of the lens barrel, the light quantity control member is saved in one united body together with the third lens group to the third lens group saving position, and at the time of the extension of the lens barrel, the light quantity control member is advanced in one united body together with the third lens group onto the optical axis of the image taking lens.

16. (withdrawn): A digital camera according to claim 14, wherein the light quantity control member consists of an electrooptical element.

17. (withdrawn): A digital camera according to claim 15, wherein the light quantity control member consists of an electrooptical element.

18. (withdrawn): A digital camera according to claim 14, wherein the light quantity control member is an aperture member that controls an aperture caliber to control the subject light passing through the image taking lens.

19. (withdrawn): A digital camera according to claim 15, wherein the light quantity control member is an aperture member that controls an aperture caliber to control the subject light passing through the image taking lens.

20. (withdrawn): A digital camera according to claim 14, wherein the light quantity control member is a shutter member that controls a shutter speed to control the subject light passing through the image taking lens.

21. (withdrawn): A digital camera according to claim 15, wherein the light quantity control member is a shutter member that controls a shutter speed to control the subject light passing through the image taking lens.

22. (withdrawn): A digital camera according to claim 1, wherein the digital camera further comprises first and second light quantity control members that moves in one united body together with the second lens group and the third lens group in the optical axis direction of the image taking lens stored in the lens barrel to control a light quantity of the subject light passing through the image taking lens, respectively, and

the second lens group advancing and saving mechanism provides such a performance that at the time of the collapse of the lens barrel, the first light quantity control member is saved in one united body together with the second lens group to the rear elements saving position, and at the time of the extension of the lens barrel, the first light quantity control member is advanced in one united body together with the second lens group onto the optical axis of the image taking lens, and

the third lens group advancing and saving mechanism provides such a performance that at the time of the collapse of the lens barrel, the second light quantity control member is saved in one united body together with the third lens group to the third lens group saving position, and at the time of the extension of the lens barrel, the second light quantity control member is advanced in one united body together with the third lens group onto the optical axis of the image taking lens.

23. (withdrawn): A digital camera according to claim 19, wherein at least one of the first and second light quantity control members consists of an electrooptical element.

24. (withdrawn): A digital camera according to claim 19, wherein one and another are an aperture member that controls an aperture caliber to control the subject light passing through the image taking lens, and a shutter member that controls a shutter speed to control the subject light passing through the image taking lens.

25. (withdrawn): A digital camera according to claim 20, wherein one and another are an aperture member that controls an aperture caliber to control the subject light passing through the image taking lens, and a shutter member that controls a shutter speed to control the subject light passing through the image taking lens.

26. (currently amended): A digital camera that creates an image signal through catching a subject light, the digital camera comprising:

an image taking lens, which is variable in a focal length, comprising ~~three groups~~ lenses of a front elements lens, a rear elements lens, and a focus lens in the named order with respect to an optical axis direction, wherein a focusing is performed by a movement of the focus lens;

a lens barrel that incorporates therein the image taking lens, having in front an aperture through which the image taking lens appears and having in rear an internal space defined by a wall, the lens barrel being free in extension and collapse and performing a focal length control; and

a solid state imaging device that receives the subject light formed by the image taking lens to create the image signal, the solid state imaging device being supported by the wall,

wherein the lens barrel has:



a rear elements lens advancing and saving mechanism in which at the time of the collapse of the lens barrel, the rear elements lens is saved to a rear elements lens saving position out of an optical axis of the image taking lens, and at the time of the extension of the lens barrel, the rear elements lens is advanced onto the optical axis of the image taking lens; and

a focus lens advancing and saving mechanism in which at the time of the collapse of the lens barrel, the focus lens is saved to a focus lens saving position out of the optical axis of the image taking lens, and at the time of the extension of the lens barrel, the focus lens is advanced onto the optical axis of the image taking lens.

27. (original): A digital camera according to claim 26, wherein the lens barrel has:

a rear elements guide frame that moves in the optical axis direction in accordance with the extension, the collapse and the focal length control so as to determine a position related to the optical axis direction of the rear elements lens; and a rear elements holding frame that holds the rear elements lens and is pivotally supported by the rear elements guide frame, the rear elements holding frame causing the rear elements lens to revolve on the optical axis of the image taking lens at the time of the extension, and the rear elements holding frame causing the rear elements lens to revolve on the rear elements lens saving position at the time of the collapse, and

wherein the lens barrel has:

a focus lens guide frame that moves in the optical axis direction in accordance with the extension, the collapse and the focusing so as to determine a position related to the optical axis direction of the focus lens; and a focus lens holding frame that holds the focus lens and is pivotally supported by the focus lens guide frame, the focus lens holding frame causing the focus lens to revolve on the optical axis of the image taking lens at the time of the extension, and the

focus lens holding frame causing the focus lens to revolve onto the focus lens saving position at the time of the collapse.

28. (original): A digital camera according to claim 27, wherein the solid state imaging device being disposed at a position projecting from the wall to the internal space and being supported by the wall, and

the rear elements holding frame and the focus lens holding frame cause the rear elements lens and the focus lens to revolve onto the rear elements lens saving position set up to a hollow portion divided by the solid state imaging device and the wall beside the solid state imaging device and the focus lens saving position, respectively, at the time of the collapse.

29. (withdrawn): A digital camera according to claim 27, wherein the rear elements holding frame and the focus lens holding frame cause the rear elements lens and the focus lens to revolve onto the rear elements lens saving position and the focus lens saving position set up to positions beside the front elements lens, respectively, at the time of the collapse, wherein there is defined a plane vertical to the optical axis, which crosses, at the time of the collapse, the front elements lens, the rear elements lens and the focus lens.

30. (original): A digital camera according to claim 27, wherein the rear elements holding frame and the focus lens holding frame have their centers of rotatable movement with respect to the rear elements guide frame and the focus lens guide frame at mutually opposite positions with respect to the optical axis.

31. (withdrawn): A digital camera according to claim 26, wherein the digital camera further comprises a light quantity control member that moves in one united body together with the rear elements lens in the optical axis direction of the image taking lens stored in the lens barrel to control a light quantity of the subject light passing through the image taking lens, and

the rear elements lens advancing and saving mechanism provides such a performance that at the time of the collapse of the lens barrel, the light quantity control member is saved in one united body together with the rear elements lens to the rear elements saving position, and at the time of the extension of the lens barrel, the light quantity control member is advanced in one united body together with the rear elements lens onto the optical axis of the image taking lens.

32. (withdrawn): A digital camera according to claim 26, wherein the digital camera further comprises a light quantity control member that moves in one united body together with the focus lens in the optical axis direction of the image taking lens stored in the lens barrel to control a light quantity of the subject light passing through the image taking lens, and

the focus lens advancing and saving mechanism provides such a performance that at the time of the collapse of the lens barrel, the light quantity control member is saved in one united body together with the focus lens to the focus lens saving position, and at the time of the extension of the lens barrel, the light quantity control member is advanced in one united body together with the focus lens onto the optical axis of the image taking lens.

33. (withdrawn): A digital camera according to claim 26, wherein the digital camera further comprises first and second light quantity control members that moves in one united body together with the rear elements lens and the focus lens in the optical axis direction of the image taking lens stored in the lens barrel to control a light quantity of the subject light passing through the image taking lens, respectively, and

the rear elements lens advancing and saving mechanism provides such a performance that at the time of the collapse of the lens barrel, the first light quantity control member is saved in one united body together with the rear elements lens to the rear elements saving position, and at the time of the extension of the lens barrel, the first light quantity control member is advanced in

one united body together with the rear elements lens onto the optical axis of the image taking lens, and

the focus lens advancing and saving mechanism provides such a performance that at the time of the collapse of the lens barrel, the second light quantity control member is saved in one united body together with the focus lens to the focus lens saving position, and at the time of the extension of the lens barrel, the second light quantity control member is advanced in one united body together with the focus lens onto the optical axis of the image taking lens.

34. (new): The digital camera according to claim 1, wherein the first lens, the second lens, and the third lens are positioned in a predetermined sequential order with respect to the solid state imaging device and wherein the first lens is farthest from the solid state imaging device.